

What is claimed is:

1. A connecting structure for sectional rack,  
comprising a plurality of vertical posts, a  
5 plurality of horizontal shelves, a plurality of  
connecting members, a plurality of pads adapted  
to attach to said connecting members, and a  
plurality of outer covers separately provided at  
each corner of said horizontal shelves for  
10 engaging with said connecting members and said  
pads;

each of said vertical posts being provided with  
at least one row of engaging holes, with which said  
15 connecting members are engaged to attach to said  
vertical post;

each of said connecting members being provided at  
a first end with upper and lower hooks adapted to  
20 extend into two vertically adjacent engaging holes  
on said vertical post and thereby hold said  
connecting member to said vertical post; a second  
end of said connecting member opposite to said  
first end being located outside said vertical post  
25 and formed into a hooking section for engaging with  
said outer cover provided at each corner of said

horizontal shelf;

each of said pads having a first side adapted to  
fitly bear against an outer surface of said  
5 vertical post, and a second side of said pad  
opposite to said first side being a downward and  
outward inclined surface; said pad being provided  
at predetermined positions with upper and lower  
openings, through which said upper and lower hooks  
10 of said connecting member may be passed to engage  
with said pad and extend into said engaging holes  
on said vertical post; and

each of said outer covers having an open outer side  
15 facing toward said vertical post and an open bottom,  
and being provided with two internal walls, which  
are downward and inward inclined surfaces adapted  
to fitly bear against said inclined surface at the  
second side of said pad when said pad is associated  
20 with said connecting member and covered by said  
outer cover;

whereby when said outer cover is fully engaged with  
said connecting member and said pad that have  
25 already been connected to said engaging holes on  
said vertical post, said internal inclined

surfaces of said outer cover apply a pushing force against said inclined surface of said pad to firmly push said pad against the outer surface of said vertical post, while said outer cover pulls said  
5 connecting member outward via said hooking section to tightly press said upper and lower hooks of said connecting member against inner sides of said engaging holes, causing said outer cover, said connecting member, said pad, and said vertical  
10 post to tightly connected to one another for said horizontal shelf to stably supported on said vertical posts.

2. The connecting structure for sectional rack as  
15 claimed in claim 1, wherein said hooking section of said connecting member includes a retaining slot vertically downward extended from a top of said connecting member, and said outer cover is internally provided at a top with a vertically  
20 downward extended insertion plate adapted to extend into and engage with said retaining slot of said connecting member.

3. The connecting structure for sectional rack as  
25 claimed in claim 1, wherein said hooking section of said connecting member includes a vertically

extended guide rail, and said outer cover is internally provided with a guide space adapted to engage with said guide rail of said connecting member.

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4. The connecting structure for sectional rack as claimed in claim 3, wherein said outer cover has two lateral sides that are inward stamped to form two projections, a front side of each said  
10 projection facing toward said pad being a downward and inward inclined surface adapted to fitly bear against said inclined surface of said pad, and a space between a rear side of each said projection opposite to said front side and an inner wall  
15 surface of said outer cover forming said guide space.

5. The connecting structure for sectional rack as claimed in claim 1, wherein said outer cover is  
20 provided at a top with a long cut, an inner end of which has a downward extended lug, and said connecting member is correspondingly provided at a top with a notch, whereby when said outer cover is put on said connecting member, said lug is  
25 extended into said notch on the top of said connecting member 30 while the top of said

connecting member is extended into said long cut  
of said outer cover.

5 6. The connecting structure for sectional rack as  
claimed in claim 1, wherein said pad has an embedded  
metal piece, a portion of which is forward  
projected from the first side of said pad to form  
a nose, said nose being adapted to extend into a  
lower one of said two engaging holes on said  
10 vertical post engaged with said upper and lower  
hooks of said connecting member when said pad is  
firmly pushed against said vertical post by said  
outer cover, and said nose being located in said  
lower engaging hole close to an upper end thereof.

15 7. The connecting structure for sectional rack as  
claimed in claim 1, wherein said pad has two  
downward and outward inclined lateral sides  
between said first and said second side to define  
20 a downward increasing width between said two  
lateral sides.